INDEX TO VOLUME 34

Acid-fast bacteria, The classification of 617
Active halogen compounds of the war gas type as fungicides and bactericides. The lacrimator monoidoacetone. Abstract 658
Aerobacter indologenes, the dissimilation of organic acids by 15
Agglutination, The serological classification of gonococci by comparative ... 353
Albino rat, Influence of salts in the diet on the intestinal flora of the 81
Albrecht, William A. and McCalla, T. M. New culture medium for rhizobia .. 455
Allen, Rovelle and Clark, Paul F. A study of various protein fractions from olfactory mucosa of the calf, with especial reference to resistance in poliomyelitis. Abstract. (No abstract) 138
Anaerobic bacteria, Studies on. XI. On the properties of the H agglutinogens of a mesophilic and a thermophilic species 321
—— ——, —— ——. XII. The fermentation products of *Clostridium thermosaccharolyticum* 419
—— cultures, "Chromium-sulphuric acid" method for 317
Anderson, A. A., Wood, H. G. and Werkman, C. H. Notes on the physiology of a d-lactic acid-forming organism. Abstract 133
——, —— and ——. Growth-factors for the propionic and lactic acid bacteria. Abstract 132
Antibiosis in the colon-typhoid group. I. Growth curves of two strains in a synthetic medium 301
Antibodies for *Trichomonas* foetus. Abstract. (No abstract) 138
Apparatus, An, for measuring turbidity of bacterial suspensions 581
Appearance of double-zone beta hemolytic streptococci in blood agar 35
Application, The, of sintered (fritted) glass filters to bacteriological work 461
Arnold, C. R., Levine, Max and Scharf, John. An equation for the evaluation of the germicidal properties of sodium hydroxide. Abstract 134
Azotobacter, Cell inclusions and the life cycle of 191

"*Bacillus innutritus*" (Kleinschmidt) and *Bacillus paraputrificus* (Bienstock), The identity of 631
—— *paraputrificus* (Bienstock), The identity of "*Bacillus innutritus*" (Kleinschmidt) and 631
Bacillus salmonicida, Dissociation in, with special reference to the appearance of a G form of culture 49
Bacteria in coal 475
Bacteria in coal. (Reply) 483
—— in pure culture, The oxidation of sewage by 207
——, On Leeuwenhoek's method of seeing 343
——, Relation of certain respiratory enzymes to the maximum growth temperatures of 489

Bacteria, soil, The growth and respiration of some, in juices of leguminous and non-leguminous plants 567
——, Studies on cultural requirements of. IX. Tissue extractives in the growth of the diphtheria bacillus 153
——, —— —— —— —— ——. X. Pimelic acid as a growth stimulant for *C. diphtheriae* 163
Bacterial protein, Separation of toxin from. The purification and concentration of diphtheria toxin. III 139
—— spores previously exposed to lethal agencies, The importance of enrichments in the cultivation of 179
—— suspensions, An apparatus for measuring turbidity of 581
—— type transformation. Abstract 350
Bacteriologic studies in a case of acute meningitis due to *Bacillus influenzae*. Abstract. (No abstract) 138
Bacteriological study of machinists' cutting compound. Abstract 241
—— work, The application of sintered (fritted) glass filters to 461
Bacteriophage. Abstract 131
—— absorption, Relationships between staphylococci and bacilli belonging to the *Subtilis* group as shown by 285
Bacteriophages, The effect of soft X-ray irradation on 639
Bailey, Sadie F. A differential medium for the meningococcus and gonococcus 645
Baldwin, I. L., Saudek, E. C. and Colingsworth, D. R. The nitrogen nutrition and growth of yeast in grain wort. Abstract 136
Berry, George P. Rabbit fibroma to myxoma transformation with heat-inactivated myxoma elementary bodies. Abstract 349
Berry, George Packer and Hine, Maynard K. Morphological and cultural studies of the genus *Fusiformis* 517
Beta alanine as a growth accessory for the diphtheria bacillus 381
Biochemical properties of *Clostridium histolyticum* (Weinberg and Seguin), Variability in morphological and 387
Blood agar, Appearance of double-zone beta hemolytic streptococci in 35
Boisvert, Paul L. Human scarlatinal streptococci in monkeys. Abstract 241
Branham, Sara E. and Carlin, Sadie A. A study of meningococci recovered in the United States since 1930 275
Breed, R. S. Recent attempts to stabilize bacteriological nomenclature. Abstract. (No abstract) 348
Brown, J. Howard. Appearance of double-zone beta hemolytic streptococci in blood agar 35
Brown, P. E. and Thorne, D. W. Growth and respiration of some soil bacteria in expressed juice of plants. Abstract. (No abstract) 136
—— and ——. The growth and respiration of some soil bacteria in juices of leguminous and non-leguminous plants 567
Burke, Victor and Wiley, Averill J. Bacteria in coal 475
Bushnell, O. A. and Sarles, W. B. Investigation of the antigenic relationships among the rhizobia of the soybean, cowpea and lupine cross-inoculation groups. Abstract 135
Butterfield, C. T. The oxidation of sewage by bacteria in pure culture 207

Carbon, The, metabolism of the crown-gall and hairy-root organisms..... 221
Carlin, Sadie A. and Branham, Sara E. A study of meningococci recovered in the United States since 1930..... 275
Carpenter, Philip L. Inhibition and absorption of anti-coli bacteriophage. Abstract..... 134
Carr, C. Jelleff, Dozois, K. Pierre, Lee, Gregory, Hachtel, Frank and Krantz, John C., Jr. The fermentation of propylene glycol by members of the *Escherichia-Aerobacter-Intermediate* groups..... 9
Casman, E. P. Concentration of staphylococcus toxoid by the kidneys. Abstract..... 351
——. Staphylococcus studies. I. Toxin production. Abstract..... 351
Casper, Wolfgang A. The serological classification of gonococci by comparative agglutination..... 353
C. diphtheriae, Pimelic acid as a growth stimulant for. Studies on cultural requirements of bacteria. X..... 163
Cell inclusions and the life cycle of *Azotobacter*..... 191
Central New York State Branch, S. A. B. Proceedings..... 347
Central Pennsylvania Branch, S. A. B. Proceedings..... 459
Chandler, Dorothy L., Frisch, Arthur W., and Rueckert, Ray R. The incidence of hemolytic streptococci in young adults of college age. Abstract. (No abstract)..... 138
Chemotherapy in streptococcal infections. Abstract..... 239
"Chromium-sulphuric acid" method for anaerobic cultures..... 317
Church, Charles F. The effect of dietary minerals upon host resistance. Abstract..... 350
Citrate-ricinoleate agar for the detection of *Escherichia*, *Aerobacter*, and proteolytic gram-negative rods in milk. Abstract..... 348
Clancy, Carl F. and Jungherr, Erwin. An undescribed serotype of *Salmonella* isolated from chicks. Abstract..... 240
Clark, Paul F. Possible factors in resistance of the olfactory mucosa to entrance of poliomyelitis virus. Abstract. (No abstract)..... 138
—— and Allen, Rovelle. A study of various protein fractions from olfactory mucosa of the calf, with especial reference to resistance in poliomyelitis. Abstract. (No abstract)..... 138
Classification, Biochemical and serological. The fusobacterium genus. I... 535
Clostridium butylicum, Reductive processes of, and the mechanism of formation of isopropyl alcohol..... 433
—— *histolyticum*, Some serological aspects of the S-R change in..... 409
—— *histolyticum* (Weinberg and Seguin), Variability in morphological and biochemical properties of..... 387
—— *thermosaccharolyticum*, Studies on anaerobic bacteria. XII. The fermentation products of..... 419
Coal, Bacteria in..... 475
Coal, Bacteria in. (Reply)..... 483
Coccobacilliform, The, bodies of fowl coryza and mouse catarrh. Abstract.. 131
Cohen, Barnett. On Leeuwenhoek's method of seeing bacteria..... 343
Cohen, Sidney and Mueller, J. Howard. Beta alanine as a growth accessory for the diphtheria bacillus..... 381

Colingsworth, D. R., Saudek, E. C. and Baldwin, I. L. The nitrogen nutrition and growth of yeast in grain wort. Abstract 136
Colon and aerogenes groups, Production of variants of the, in different media. I. Sucrose medium 465
Colon-typhoid group, Antibiosis in the. I. Growth curves of two strains in a synthetic medium 301
Colony, The, form of hemolytic streptococci from clinical sources. Abstract . 237
Comparative, A, study of methods for the isolation of typhoid bacilli from the stools of suspected carriers. Abstract 565
Comparison, A, of brilliant green lactose bile and formate ricinoleate media for the detection of the *Escherichia-Aerobacter* group in milk and ice cream. Abstract 349
—— of the germicidal efficiency of hypochlorites of high and low alkalinity .. 1
Concentration of staphylococcus toxoid by the kidneys. Abstract 351
Conn, H. J. and Darrow, Mary. Influence of drying upon soil used as a medium for bacteria. Abstract 347
Connecticut Valley Branch, S. A. B. Proceedings 240
Conner, H. A., Riker, A. J. and Peterson, W. H. The carbon metabolism of the crown-gall and hairy-root organisms 221
Convalescent scarlatinal serum in the prevention and treatment of streptococcal diseases. Abstract 239
Cope, Elizabeth and Kasper, Joseph. A comparative study of methods for the isolation of typhoid bacilli from the stools of suspected carriers. Abstract 565
Correlated antigenic and biochemical properties of staphylococci 69
Costigan, S. M. Comparison of the germicidal efficiency of hypochlorites of high and low alkalinity 1
Cox, Gertrude M. and Martin, William P. Use of discriminant function for differentiating between soils with different *Azotobacter* populations. Abstract. (No abstract) 136
Crown-gall and hairy-root organisms, The carbon metabolism of the 221
Cultural methods for the recognition of *C. welchii* in wounds. Abstract. (No abstract) 138
—— requirements of bacteria, Studies on. IX. Tissue extractives in the growth of the diphtheria bacillus 153
—— —— —— ——, —— ——. X. Pimelic acid as a growth stimulant for *C. diphtheriae* 163
Cultural studies of the genus *Fusiformis*, Morphological and 517
Curran, Harold R. and Evans, Fred R. The importance of enrichments in the cultivation of bacterial spores previously exposed to lethal agencies. 179
Czarnetzky, E. J. and Morgan, Isabel. A stable hemolysin-leucocidin from β-hemolytic streptococci. Abstract 238
—— and Morton, Harry E. The application of sintered (fritted) glass filters to bacteriological work 461
——, Mudd, Stuart, Pettit, H. and Lackman, David. Isolation and specificity of the labile antigen of *Streptococcus hemolyticus* (Group A). Abstract 237
——, Pepper, D. Sergeant and Ravdin, I. S. Chemotherapy in streptococcal infections. Abstract 239

Darrow, Mary and Conn, H. J. Influence of drying upon soil used as a medium for bacteria. Abstract 347
Davison, F. W. Tuberculosis tracheobronchitis. Preliminary report of its treatment by electrocoagulation. Abstract 459
Degenerative changes of the neutrophiles in clinical and experimental observations. Abstract 352
Demonstration of a multiple pipetting machine. Abstract 241
Devereux, E. D. A statistical analysis of standard plated counts and methylene-blue plated counts and methylene-blue reduction tests made on raw milk. Abstract 565
Differential, A, medium for the meningococcus and gonococcus 645
Diphtheria bacillus, Beta alanine as a growth accessory for the 381
—— ——, Nicotinic acid as a growth accessory substance for the 429
—— ——, Tissue extractives in the growth of the. Studies on cultural requirements of bacteria. IX 153
—— toxin, The purification and concentration of. III. Separation of toxin from bacterial protein 129
Dissimilation, The, of organic acids by *Aerobacter indologenes* 15
Dissociation in *Bacillus salmonicida*, with special reference to the G form of culture 49
Dozois, K. Pierre, Lee, Gregory A., Carr, C. Jelleff, Hachtel, Frank, and Krantz, John C., Jr. The fermentation of propylene glycol by members of the *Escherichia-Aerobacter-Intermediate* groups 9
Duff, D. C. B. Dissociation in *Bacillus salmonicida*, with special reference to the appearance of a G form of culture 49

Eagle, Harry. Modern problems in the experimental study of syphilis. Abstract 459
Eastern Pennsylvania Chapter, S.A.B. Proceedings 131, 237, 350
Eaton, Monroe D. The purification and concentration of diphtheria toxin. III. Separation of toxin from bacterial protein 139
Edwards, O. F. and Rettger, L. F. Relation of certain respiratory enzymes to the maximum growth temperature of bacteria 489
Effect of bacterial filtrates in the prophylaxis of upper respiratory infections. Abstract 657
——, The, of dietary minerals upon host resistance. Abstract 350
——, The, of soft X-ray irradiation on bacteriophages 639
Elvehjem, C. A., Pavcek, P. L. and Peterson, W. H. Further studies on the factors affecting the vitamin B_1 content of yeast 133
Enrichments, The importance of, in the cultivation of bacterial spores previously exposed to lethal agencies 179
Eppright, Ercel S., Valley, George and Smith, Arthur H. Influence of salts in the diet on the intestinal flora of the albino rat 81
Equation, An, for the evaluation of the germicidal properties of sodium hydroxide. Abstract 134
Escherichia-Aerobacter-Intermediate groups, The fermentation of propylene glycol by members of the 9
Evaluation, An, of formate-ricinoleate broth for the detection of colon organisms in raw and pasteurized milk. Abstract 348

Evans, Alice C. Studies on hemolytic streptococci 21
Evans, Fred R. and Curran, Harold R. The importance of enrichments in the cultivation of bacterial spores previously exposed to lethal agencies. 179

Factors influencing the rate of lactic fermentation. Abstract. (No abstract) 350
Fermentation products, The, of *Clostridium thermosaccharolyticum*, Studies on anaerobic bacteria. XII 419
——, The, of propylene glycol by members of the *Escherichia-Aerobacter-Intermediate* groups 9
Fibrinolytic, anticoagulating and plasma-clotting properties of staphylococci 243
Filters, The application of sintered (fritted) glass, to bacteriological work ... 461
Fleugel, G. N. Stenosing proctitis, or the sixth veneral disease. Abstract .. 459
Frazier, W. C. and Landerkin, G. B. Variations in salt tolerance of facultative halophiles. Abstract 133
Fred, E. B. and Greene, H. C. Sporulation in relation to colony structure, with special reference to *Bacillus acetoethylicum*. Abstract. (No abstract) 135
——, Langlykke, A. F. and Peterson, W. H. Reductive processes of *Clostridium butylicum* and the mechanism of formation of isopropyl alcohol .. 443
Frisch, Arthur W., Rueckert, Ray R. and Chandler, Dorothy L. The incidence of hemolytic streptococci in young adults of college age. Abstract. (No abstract) 138
Fuller, James E. Bacteriological study of machinists' cutting compound. Abstract 241
Fulton, MacDonald. Antibiosis in the colon-typhoid group. I. Growth curves of two strains in a synthetic medium 301
Further studies on the factors affecting the vitamin B_1 content of yeast. Abstract 133
Fusiformis, Morphological and cultural studies of the genus 517
Fusobacterium, The, genus. I. Biochemical and serological classification ... 535
——, ——, ——. II. Some observations on growth requirements and variation 549

G form of culture, Dissociation in *Bacillus salmonicida*, with special reference to the appearance of a 49
Germicidal efficiency of hypochlorites of high and low alkalinity, Comparison of the 1
—— substances, A new method for the evaluation of 267
Gonococci, The serological classification of, by comparative agglutination ... 353
Gonococcus, A differential medium for the meningococcus and 645
Gordon, A. S. Effect of bacterial filtrates in the prophylaxis of upper respiratory infections. Abstract 657
Gordon, Ruth E. The classification of acid-fast bacteria 617
Greene, H. C. and Fred, E. B. Sporulation in relation to colony structure, with special reference to *Bacillus acetoethylicum*. Abstract. (No abstract) 135
Growth and respiration of some soil bacteria in expressed juice of plants. Abstract. (No abstract) 136

Growth-factors for the propionic and lactic acid bacteria. Abstract..... 132
—— requirements and variation, Some observations on. The fusobacterium genus. II..... 549
—— temperatures, maximum, of bacteria, Relation of certain respiratory enzymes to the..... 489
——, The, and respiration of some soil bacteria in juices of leguminous and non-leguminous plants..... 567
Gunsalus, I. C. and Stark, C. N. An evaluation of formate-ricinoleate broth for the detection of colon organisms in raw and pasteurized milk. Abstract..... 348

Hachtel, Frank, Dozois, K. Pierre, Lee, Gregory A., Carr, C. Jelleff, and Krantz, John C., Jr. The fermentation of propylene glycol by members of the *Escherichia-Aerobacter-Intermediate* groups..... 9
Haemolysin, The relation of peptone to production of, by streptococci..... 585
H agglutinogens, On the properties of the, of a mesophilic and a thermophilic species. Studies on anaerobic bacteria. XI..... 321
Hairy-root organisms, The carbon metabolism of the crown-gall and..... 221
Haley, D. E., Reid, J. J., McKinstry, D. W. and Surmatis, J. D. The relation of the catalase activity to the microflora of cured and fermenting tobacco. Abstract..... 460
Hall, Ivan C. and Ridgway, Dorothy. The identity of "*Bacillus innutritus*" (Kleinschmidt) and *Bacillus paraputrificus* (Bienstock)..... 631
Hastings, E. G. and McCarter, Janet. The precipitin test as a means of identifying acid-fast bacteria. Abstract. (No abstract)..... 138
Heat penetration and effectiveness in the canning of meat in the home by the pressure cooker. Abstract..... 134
Hemolytic streptococci, Appearance of double-zone beta, in blood agar..... 35
—— ——, Studies on..... 21
Henrici, A. T. Seasonal fluctuation of lake bacteria in relation to plankton production. Abstract..... 137
Hine, Maynard K. and Berry, George Packer. Morphological and cultural studies of the genus *Fusiformis*..... 517
Holford, Francis E. The inheritance of factors M and N in human blood. Abstract. (No abstract)..... 138
Hoogerheide, J. C. Variability in morphological and biochemical properties of *Clostridium histolyticum* (Weinberg and Seguin)..... 387
Human scarlatinal streptococci in monkeys. Abstract..... 241
Hypochlorites of high and low alkalinity, Comparison of the germicidal efficiency of..... 1

Identity, The, of "*Bacillus innutritus*" (Kleinschmidt) and *Bacillus paraputrificus* (Bienstock)..... 631
Importance, The, of enrichments in the cultivation of bacterial spores previously exposed to lethal agencies..... 179
Incidence, The, of hemolytic streptococci in young adults of college age. Abstract. (No abstract)..... 138
Incidence, The, of *Monilia albicans* in routine sputum specimens. Abstract. 657
Independent variation of several characteristics in *S. marcescens*..... 255

Infective, The, ability of rhizobia of the pea-vetch cross-inoculation group. Abstract 135
Influence of dead bacteria on microscopic counts of pasteurized milk. Abstract 565
—— of drying upon soil used as a medium for bacteria. Abstract 347
—— of salts in the diet on the intestinal flora of the albino rat 81
——, The, of various substances and conditions upon streptococcal haemolysin 603
Inheritance of factors M and N in human blood. Abstract. (No abstract) .. 138
Inhibition and absorption of anti-coli bacteriophage. Abstract 134
Intermediate metabolism of *Aerobacter*. Abstract 137
Intestinal flora of the albino rat, Influence of salts in the diet on 81
Investigation of the antigenic relationships among the rhizobia of the soybean, cowpea, and lupine cross-inoculation groups. Abstract 135
Isolation and specificity of the labile antigen of *Streptococcus hemolyticus* (Group A). Abstract 237
—— of mild strains of aster yellows from heat-treated leafhoppers. Abstract. 132
Isopropyl alcohol, Reductive processes of *Clostridium butylicum* and the mechanism of formation of 443

Jacobsson, Baltzar J., Reynolds, H. and Werkman, C. H. The dissimilation of organic acids by *Aerobacter indologenes* 15
Jones, Claudius P., Martin, Donald S., Yao, K. F. and Lee, L. E., Jr. A practical classification of the monilias 99
Jungherr, Erwin and Clancy, Carl F. An undescribed sero-type of *Salmonella* isolated from chicks. Abstract 240

Kasper, Joseph and Cope, Elizabeth. A comparative study of methods for the isolation of typhoid bacilli from the stools of suspected carriers. Abstract 565
Kenney, Dorothy, Weedon, Frederick R. and Shirk, Marie E. The incidence of *Monilia albicans* in routine sputum specimens. Abstract 657
Kersten, H. and Wright, Elizabeth V. An apparatus for measuring turbidity of bacterial suspensions 581
—— and —— The effect of soft X-ray irradiation on bacteriophages 639
Khorazo, Devorah and Thompson, Richard. Correlated antigenic and biochemical properties of staphylococci 69
Krantz, John C., Jr., Dozois, K. Pierre, Lee, Gregory A., Carr, C. Jelleff, and Hachtel, Frank. The fermentation of propylene glycol by members of the *Escherichia-Aerobacter-Intermediate* groups 9
Kunkel, L. O. Isolation of mild strains of aster yellows from heat-treated leafhoppers. Abstract 132

Lackman, David. The colony form of hemolytic streptococci from clinical sources. Abstract 237
——, Czarnetzky, E. J., Mudd, Stuart and Pettit, H. Isolation and specificity of the labile antigen of *Streptococcus hemolyticus* (Group A). Abstract 237

Landerkin, G. B. and Frazier, W. C. Variations in salt tolerance of facultative halophiles. Abstract ... 133
Langlykke, A. F., Peterson, W. H. and Fred, E. B. Reductive processes of *Clostridium butylicum* and the mechanism of formation of isopropyl alcohol ... 443
Leahy, H. W. A comparison of brilliant green lactose bile and formate ricinoleate media for the detection of the *Escherichia-Aerobacter* group in milk and ice cream. Abstract ... 349
Lee, Gregory A., Dozois, K. Pierre, Carr, C. Jelleff, Hachtel, Frank and Krantz, John C., Jr. The fermentation of propylene glycol by members of the *Escherichia-Aerobacter-Intermediate* groups ... 9
Lee, L. E., Jr., Martin, Donald S., Jones, Claudius P. and Yao, K. F. A practical classification of the monilias ... 99
Lee, S., Umbreit, W. W. and Wilson, P. W. An unusual occurrence of *Hydrogenomonas* sp. Abstract. (No abstract) ... 136
Leeuwenhoek's method, On, of seeing bacteria ... 343
Leguminous and non-leguminous plants, The growth and respiration of some soil bacteria in juices of ... 567
Lethal agencies, The importance of enrichments in the cultivation of bacterial spores previously exposed to ... 179
Levine, Max, Arnold, C. R., and Scharf, John. An equation for the evaluation of the germicidal properties of sodium hydroxide. Abstract ... 134
Lewis, I. M. Cell inclusions and the life cycle of *Azotobacter* ... 191
Life cycle of *Azotobacter*, Cell inclusions and the ... 191
Lipman, Charles B. Bacteria in coal. (Reply) ... 483
Littman, M. L. and Stark, C. N. Citrate-ricinoleate agar for the detection of *Escherichia*, *Aerobacter*, and proteolytic gram-negative rods in milk. Abstract ... 348
Loftus, Nellie. Social work and syphilis. Abstract ... 459

Mallmann, W. L. and Michael, Catherine. The unreliability of eosin-methylene-blue-agar in the isolation of coli-aerogenes group. Abstract ... 565
Martin, Donald S., Jones, Claudius P., Yao, K. F. and Lee, L. E., Jr. A practical classification of the monilias ... 99
Martin, William P. and Cox, Gertrude M. Use of discriminant function for differentiating between soils with different *Azotobacter* populations. Abstract. (No abstract) ... 136
Maycock, Peter P. Syphilis from the standpoint of the clinician. Abstract ... 459
McCalla, T. M. and Albrecht, William A. New culture medium for rhizobia ... 455
McCarter, Janet and Hastings, E. G. The precipitin test as a means of identifying acid-fast bacteria. Abstract. (No abstract) ... 138
McCoy, Elizabeth. Studies on anaerobic bacteria. XI. On the properties of the H agglutinogens of a mesophilic and a thermophilic species ... 321
McCoy, O. R. Prevalence of human infection with *Trichinella spiralis*. Abstract. (No abstract) ... 348
McGuinness, Aims C. and Stokes, Joseph, Jr. Convalescent scarlatinal serum in the prevention and treatment of streptococcal diseases. Abstract ... 239

McKinstry, D. W., Reid, J. J., Haley, D. E. and Surmatis, J. D. The relation of the catalase activity to the microflora of cured and fermenting tobacco. Abstract ... 460
McOmie, W. A., Salle, A. J. and Schechmeister, I. L. A new method for the evaluation of germicidal substances ... 267
Meningococci, A study of, recovered in the United States since 1930 ... 275
Meningococcus and gonococcus, A differential medium for the ... 645
Mesophilic and a thermophilic species, On the properties of the H agglutinogens of a. Studies on anaerobic bacteria. XI ... 321
Michael, Catherine and Mallmann, W. L. The unreliability of eosin-methylene-blue-agar in the isolation of coli-aerogenes group. Abstract ... 565
Michigan Branch, S.A.B., Proceedings ... 565
Mickelson, M. and Werkman, C. H. Intermediate metabolism of *Aerobacter*. Abstract ... 137
Modern problems in the experimental study of syphilis. Abstract ... 459
Modification, A, of the fibrinolytic test for streptococci. Abstract. (No abstract) ... 348
Monilias, A practical classification of the ... 99
Morgan, Isabel and Czarnetzky, E. J. A stable hemolysin-leucocidin from β-hemolytic streptococci. Abstract ... 238
Morphological and biochemical properties of *Clostridium histolyticum* (Weinberg and Seguin), Variability in ... 387
—— and cultural studies of the genus *Fusiformis* ... 517
Morton, Harry E. and Czarnetzky, E. J. The application of sintered (fritted) glass filters to bacteriological work ... 461
Mudd, Stuart, Czarnetzky, E. J., Pettit, H. and Lackman, David. Isolation and specificity of the labile antigen of *Streptococcus hemolyticus* (Group A). Abstract ... 237
—— and Pettit, Horace. Surface composition of mucoid, glossy and rough variants of hemolytic streptococci. Abstract ... 237
Mueller, J. Howard. Nicotinic acid as a growth accessory substance for the diphtheria bacillus ... 429
—— Studies on cultural requirements of bacteria. X. Pimelic acid as a growth stimulant for *C. diphtheriae* ... 163
——, and Cohen, Sidney. Beta alanine as a growth accessory for the diphtheria bacillus ... 381
—— and Subbarow, Y. Studies on cultural requirements of bacteria. IX. Tissue extractives in the growth of the diphtheria bacillus ... 153
Myers, Charles E., and Ward, Archibald R. Influence of dead bacteria on microscopic counts of pasteurized milk. Abstract ... 565

Nelson, C. I. Heat penetration and effectiveness in the canning of meat in the home by the pressure cooker. Abstract ... 134
Nelson, John B. The coccobacilliform bodies of fowl coryza and mouse catarrh. Abstract ... 131
Nelson, Phyllis M. Antibodies for *Trichomonas* foetus. Abstract. (No abstract) ... 138
Neter, Erwin. Fibrinolytic, anticoagulating and plasma-clotting properties of staphylococci ... 243

New, A, method for the evaluation of germicidal substances 267
—— culture medium for rhizobia 455
New York City Branch, S.A.B. Proceedings 657
Nicotinic acid as a growth accessory substance for the diphtheria bacillus 429
Nitrogen, The, nutrition and growth of yeast in grain wort. Abstract 136
Nivan, C. F., Sherman, J. M. and Smith, F. R. A modification of the fibrinolytic test for streptococci. Abstract. (No abstract) 348
North Central Branch, S.A.B., Proceedings 132
Northrop, John H. Bacteriophage. Abstract 131
Notes on the physiology of a d-lactic acid-forming organism. Abstract 133

Organic acids, The dissimilation of, by *Aerobacter indologenes* 15
Oxidation, The, of sewage by bacteria in pure culture 207

Palmer, Russell R. Results of five-year quality control program on Detroit's milk supply. Abstract 566
Paper mill sanitation in relation to the manufacture of food wraps and containers. Abstract 347
Pavcek, P. L., Peterson, W. H. and Elvehjem, C. A. Further studies on the factors affecting the vitamin B_1 content of yeast 133
Pepper, D. Sergeant, Czarnetzky, E. J. and Ravdin, I. S. Chemotherapy in streptococcal infections. Abstract 239
Peterson, W. H., Conner, H. A. and Riker, A. J. The carbon metabolism of the crown-gall and hairy-root organisms 221
——, Langlykke, A. F. and Fred, E. B. Reductive processes of *Clostridium butylicum* and the mechanism of formation of isopropyl alcohol 443
——, Pavcek, P. L. and Elvehjem, C. A. Further studies on the factors affecting the vitamin B_1 content of yeast 133
Pettit, H., Czarnetzky, E. J., Mudd, Stuart, and Lackman, David. Isolation and specificity of the labile antigen of *Streptococcus hemolyticus* (Group A). Abstract 237
Pettit, Horace and Mudd, Stuart. Surface composition of mucoid, glossy and rough variants of hemolytic streptococci. Abstract 237
Phosphorylation in the living bacterial cell. Abstract 132
Pimelic acid as a growth stimulant for *C. diphtheriae*. Studies on cultural requirements of bacteria. X 163
Plastridge, W. N. and Williams, L. F. Demonstration of a multiple pipetting machine. Abstract 241
Poe, Charles F. and Tregoning, Joseph J. Production of variants of the colon and aerogenes groups in different media. I. Sucrose medium 465
Possible factors in resistance of the olfactory mucosa to the entrance of poliomyelitis virus. Abstract. (No abstract) 138
Practical, A, classification of the monilias 99
Precipitin, The, test as a means of identifying acid-fast bacteria. Abstract. (No abstract) 138
Presence, The, of the Vi antigen in extracts of *Eberthella typhosa*. Abstract. 240
Prevalence of human infection with *Trichinella spiralis*. Abstract. (No abstract) 348

Production of variants of the colon and aerogenes groups in different media. I. Sucrose medium 465
Propylene glycol, The fermentation of, by members of the *Escherichia-Aerobacter-Intermediate* groups 9
Purification, The, and concentration of diphtheria toxin. III. Separation of toxin from bacterial protein 139

Rabbit fibroma to myxoma transformation with heat-inactivated myxoma elementary bodies. Abstract 349
Rahn, Otto, Hegarty, C. P. and Deuel, E. P. Factors influencing the rate of lactic fermentation. Abstract. (No abstract) 350
Rakieten, Morris L. and Rakieten, Tony L. Relationships between staphylococci and bacilli belonging to the *Subtilis* group as shown by bacteriophage absorption 285
——, Tony L. and Rakieten, Morris L. Relationships between staphylococci and bacilli belonging to the *Subtilis* group as shown by bacteriophage absorption 285
Ravdin, I. S., Pepper, D. Sergeant and Czarnetzky, E. J. Chemotherapy in streptococcal infections. Abstract 239
Recent attempts to stabilize bacteriological nomenclature. Abstract. (No abstract) 348
Reductive processes of *Clostridium butylicum* and the mechanism of formation of isopropyl alcohol 443
Reed, G. B. Independent variation of several characteristics in *S. marcescens*. 255
Reid, J. J., Haley, D. E., McKinstry, D. W. and Surmatis, J. D. The relation of the catalase activity to the microflora of cured and fermenting tobacco. Abstract 460
Reimann, Hobart A. Bacterial type transformation. Abstract 350
Relation of certain respiratory enzymes to the maximum growth temperatures of bacteria 489
——, The, of catalase activity to the microflora of cured and fermenting tobacco. Abstract 460
——, The, of peptone to production of haemolysin by streptococci 585
Relationships between staphylococci and bacilli belonging to the *Subtilis* group as shown by bacteriophage absorption 285
Respiratory enzymes, Relation of certain, to the maximum growth temperatures of bacteria 489
Results of five-year quality control program on Detroit's milk supply. Abstract 566
Rettger, L. F. and Edwards, O. F. Relation of certain respiratory enzymes to the maximum growth temperature of bacteria 489
—— and Spaulding, Earle H. The fusobacterium genus. I. Biochemical and serological classification 535
Rettger, Leo F. and Spaulding, Earle H. The fusobacterium genus. II. Some observations on growth requirements and variation 549
Reynolds, H., Jacobsson, Baltzar J. and Werkman, C. H. The dissimilation of organic acids by *Aerobacter indologenes* 15
Rhizobia, New culture medium for 455

Ridgway, Dorothy, and Hall, Ivan C. The identity of "*Bacillus innutritus*" (Kleinschmidt) and *Bacillus paraputrificus* (Bienstock) 631
Riker, A. J., Conner, H. A. and Peterson, W. H. The carbon metabolism of the crown-gall and hairy-root organisms 221
Robinson, Lenore. Cultural methods for the recognition of *C. welchii* in wounds. Abstract. (No abstract) 138
Rosenow, E. C. Bacteriologic studies in a case of acute meningitis due to *Bacillus influenzae*. Abstract. (No abstract) 138
Rosenthal, L. "Chromium-sulphuric acid" method for anaerobic cultures .. 317
Rueckert, Ray R., Frisch, Arthur W., and Chandler, Dorothy L. The incidence of hemolytic streptococci in young adults of college age. Abstract. (No abstract) 138
Ruf, E. W. and Sarles, W. B. The infective ability of rhizobia of the pea-vetch cross-inoculation group. Abstract 135

Salle, A. J., McOmie, W. A. and Schechmeister, I. L. A new method for the evaluation of germicidal substances 267
Salts in the diet, Influence of, on the intestinal flora of the albino rat 81
Sanborn, J. R. Paper mill sanitation in relation to the manufacture of food wraps and containers. Abstract 347
Sarles, W. B. and Bushnell, O. A. Investigation of the antigenic relationships among the rhizobia of the soybean, cowpea and lupine cross-inoculation groups. Abstract 135
—— and Ruf, E. W. The infective ability of rhizobia of the pea-vetch cross-inoculation group. Abstract 135
Saudek, E. C., Colingsworth, D. R. and Baldwin, I. L. The nitrogen nutrition and growth of yeast in grain wort. Abstract 136
Scharf, John, Arnold, C. R. and Levine, Max. An equation for the evaluation of the germicidal properties of sodium hydroxide. Abstract 134
Schechmeister, I. L., Salle, A. J. and McOmie, W. A. A new method for the evaluation of germicidal substances 267
Schwartzmann, The, reaction applied to the study of certain fungi. Abstract. (No abstract) 138
Seasonal fluctuation of lake bacteria in relation to plankton production. Abstract 137
Serological aspects, Some, of the S-R change in *Cl. histolyticum* 409
——, The, classification of gonococci by comparative agglutination 353
Sewage, The oxidation of, by bacteria in pure culture 207
Sherman, J. M., Smith, F. R. and Nivan, C. F. A modification of the fibrinolytic test for streptococci. Abstract. (No abstract) 348
Shirk, Marie E., Weedon, Frederick R. and Kenney, Dorothy. The incidence of *Monilia albicans* in routine sputum specimens. Abstract 657
Sjolander, Newell O. Studies on anaerobic bacteria. XII. The fermentation products of *Clostridium thermosaccharolyticum* 419
Skinner, C. E. The "tyrosinase reaction" of the actinomycetes. Abstract. 136
Smith, Arthur H., Eppright, Ercel S. and Valley, George. Influence of salts in the diet on the intestinal flora of the albino rat 81

Smith, Elinor VanDorn. The presence of the Vi antigen in extracts of *Eberthella typhosa*. Abstract 240
Smith, Frederick. The influence of various substances and conditions upon streptococcal haemolysins 603
—— The relation of peptone to production of haemolysin by streptococci 585
Smith, F. R., Sherman, J. M. and Nivan, C. F. A modification of the fibrinolytic test for streptococci. Abstract. (No abstract) 348
Smith, Louis. Some serological aspects of the S-R change in *Cl. histolyticum* 409
Social work and syphilis. Abstract 459
Spaulding, Earle H. and Rettger, Leo F. The fusobacterium genus. I. Biochemical and serological classification 535
—— and ——. The fusobacterium genus. II. Some observations on growth requirements and variation 549
Sporulation in relation to colony structure, with special reference to *Bacillus acetoethylicum*. Abstract. (No abstract) 135
S-R change in *Cl. histolyticum*, Some serological aspects of the 409
Stable, A, hemolysin-leucocidin from β-hemolytic streptococci. Abstract 238
Staphylococci and bacilli belonging to the *Subtilis* group as shown by bacteriophage absorption, Relationships between 285
Staphylococci, Correlated antigenic and biochemical properties of 69
——, Fibrinolytic, anticoagulating and plasma-clotting properties of 243
Staphylococcus studies. I. Toxin production. Abstract 351
Stark, C. N. and Gunsalus, I. C. An evaluation of formate-ricinoleate broth for the detection of colon organisms in raw and pasteurized milk. Abstract 348
—— and Littman, M. L. Citrate-ricinoleate agar for the detection of *Escherichia, Aerobacter*, and proteolytic gram-negative rods in milk. Abstract 348
Statistical, A, analysis of standard plated counts and methylene-blue plated counts and methylene-blue reduction tests made on raw milk. Abstract 565
Stenosing proctitis, or the sixth venereal disease. Abstract 459
Stokes, Joseph and McGuinness, Aims C. Convalescent scarlatinal serum in the prevention and treatment of streptococcal diseases. Abstract 239
Streptococcal haemolysin, The influence of various substances and conditions upon 603
Streptococci, The rélation of peptone to production of haemolysin by 585
Strumia, Max M. Degenerative changes of the neutrophiles in clinical and experimental observations. Abstract 352
Studies on anaerobic bacteria. XI. On the properties of the H agglutinogens of a mesophilic and a thermophilic species 321
—— on anaerobic bacteria. XII. The fermentation products of *Clostridium thermosaccharolyticum* 419
—— on cultural requirements of bacteria. IX. Tissue extractives in the growth of the diphtheria bacillus 153
—— —— —— —— —— —— X. Pimelic acid as a growth stimulant for *C. diphtheriae* 163
—— on hemolytic streptococci 21

Study, A, of meningococci recovered in the United States since 1930..... 275
——, A, of various protein fractions from olfactory mucosa of the calf, with especial reference to resistance in poliomyelitis. Abstract. (No abstract)..... 138
Subbarow, Y. and Mueller, J. Howard. Studies on cultural requirements of bacteria. IX. Tissue extractives in the growth of the diphtheria bacillus. 153
Subtilis group, Relationships between staphylococci and bacilli belonging to the, by bacteriophage absorption..... 285
Sucrose medium, Production of variants of the colon and aerogenes groups in different media. I..... 465
Surface composition of mucoid, glossy and rough variants of hemolytic streptococci. Abstract..... 237
Surmatis, J. D., Reid, J. J., Haley, D. E., and McKinstry, D. W. The relation of the catalase activity to the microflora of cured and fermenting tobacco. Abstract..... 460
Syphilis from the standpoint of the clinician. Abstract..... 459

Thompson, Richard and Khorazo, Devorah. Correlated antigenic and biochemical properties of staphylococci..... 69
Thorne, D. W. and Brown, P. E. Growth and respiration of some soil bacteria in expressed juice of plants. Abstract. (No abstract)..... 136
—— and —— The growth and respiration of some soil bacteria in juices of leguminous and non-leguminous plants..... 567
Tissue extractives in the growth of the diphtheria bacillus. Studies on cultural requirements of bacteria. IX..... 153
Toxin, Separation of, from bacterial protein. The purification and concentration of diphtheria toxin. III..... 139
Tregoning, Joseph J. and Poe, Charles F. Production of variants of the colon and aerogenes groups in different media. I. Sucrose medium..... 465
Tuberculosis tracheobronchitis, Preliminary report of its treatment by electrocoagulation. Abstract..... 459
"Tyrosinase reaction," The, of the actinomycetes. Abstract..... 136

Umbreit, W. W., Wilson, P. W. and Lee, S. An unusual occurrence of *Hydrogenomonas* sp. Abstract. (No abstract)..... 136
Undescribed, An, serotype of *Salmonella* isolated from chicks. Abstract.... 240
Unreliability, The, of eosin-methylene-blue-agar in the isolation of coli-aerogenes group. Abstract..... 565
Unusual, An, occurrence of *Hydrogenomonas* sp. Abstract. (No abstract).. 136
Use of discriminant function for differentiating between soils with different *Azotobacter* populations. Abstract. (No abstract)..... 136

Valley, George, Eppright, Ercel S. and Smith, Arthur H. Influence of salts in the diet on the intestinal flora of the albino rat..... 81
Variability in morphological and biochemical properties of *Clostridium histolyticum* (Weinberg and Seguin)..... 387
Variants of the colon and aerogenes groups in different media, Production of. I. Sucrose medium..... 465
Variations in salt tolerance of facultative halophiles. Abstract..... 133

Ward, Archibald R. and Myers, Charles E. Influence of dead bacteria on microscopic counts of pasteurized milk. Abstract 565
Weedon, Frederick R. Active halogen compounds of the war gas type as fungicides and bactericides. The lacrimator monoidoacetone. Abstract 658
Weedon, Frederick R., Kenney, Dorothy and Shirk, Marie E. The incidence of *Monilia albicans* in routine sputum specimens. Abstract 657
Werkman, C. H., Anderson, A. A. and Wood, H. G. Notes on the physiology of a d-lactic acid-forming organism. Abstract 133
—— and Mickelson, M. Intermediate metabolism of *Aerobacter*. Abstract. 137
——, Reynolds, H. and Jacobsson, Baltzar J. The dissimilation of organic acids by *Aerobacter indologenes* 15
—— and Wiggert, W. Paul. Phosphorylation in the living bacterial cell. Abstract 132
——, Wood, H. G. and Anderson, A. A. Growth-factors for the propionic and lactic acid bacteria. Abstract 132
Wiggert, W. Paul and Werkman, C. H. Phosphorylation in the living bacterial cell. Abstract 132
Wiley, Averill J. and Burke, Victor. Bacteria in coal 475
Williams, L. F. and Plastridge, W. N. Demonstration of a multiple pipetting machine. Abstract 241
Wilson, P. W., Umbreit, W. W. and Lee, S. An unusual occurrence of *Hydrogenomonas* sp. Abstract. (No abstract) 136
Wood, H. G., Anderson, A. A. and Werkman, C. H. Growth-factors for the propionic and lactic acid bacteria. Abstract 132
——, Anderson, A. A. and Werkman, C. H. Notes on the physiology of a d-lactic acid-forming organism. Abstract 133
Worley, Gordon. The Schwartzmann reaction applied to the study of certain fungi. Abstract. (No abstract) 138
Wright, Elizabeth V. and Kersten, H. An apparatus for measuring turbidity of bacterial suspensions 581
—— and —— The effect of soft X-ray irradiation on bacteriophages 639

X-ray irradiation, soft, The effect of, on bacteriophages 639

Yao, K. F., Martin, Donald S., Jones, Claudius P. and Lee, L. E., Jr. A practical classification of the monilias 99